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Introduction

Congratulations on purchasing Monitor Audio loudspeakers. We are confident they will provide a reliable, high performance sound for many years.
Monitor Audio are a highly respected member of the 'Guild of Master Craftsmen' and we have over 30 years of experience in the art of traditional wood working techniques and leading edge drive unit technology. This marriage of old and new brings you the Bronze Reference Series.
At Monitor Audio we pride ourselves in our ability to make the listening experience as close as possible to the original 'music' production.
This is all achieved by only using quality components developed by our award winning team, and manufactured to very strict standards and tolerances.

Safety Instructions

1. Read Instructions

Please read and follow all of the instructions in this manual before enjoying you loudspeakers. Any instructions proceeded by this warning triangle MUST be followed. Failure to do so may cause personal injury or damage the speakers.

2. Water & Moisture

The loudspeakers should not be used near water - for example, bathtub, washbowl, kitchen sink, washing machine, in a wet basement or near a swimming pool. Under no circumstance should plants or fish bowls be placed on the products.

3. Heat

The speaker/s should not be placed near any heat source such as radiators, open fires, stoves, direct sunlight and any other appliance that produces heat.
These speakers are designed for use within the home environment. Exposure to extreme temperatures & humidity when placed on patios or open conditions could adversely affect the wooden cabinet.

4. Cleaning

Great care and attention has gone into the materials chosen to produce the Bronze BR loudspeakers. It is our intention that they should provide a lifetime of musical pleasure. A gentle wipe with a dry, clean cloth is all that is required to remove any dust. Treat them as you would a fine piece of furniture because that is how they have been designed. Avoid touching the loudspeaker's drive units whilst cleaning, as any damage will impair their performance.

Re-cycling

Disposal of Waste Electrical and Electronic Equipment (WEEE) by User in Private Households in the EU

This symbol on the product or accessories indicates that they must not be disposed of with your house hold waste. Instead it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for recycling WEEE. The separate collection and recycling of your waste equipment will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more specific information about where you can take your equipment for recycling please contact your local city/ council office, your local waste disposal service or the outlet where you purchased the product.

RoHS Declaration of Conformity

Directive 2002/95/EC of the Europe an Parliament and of the Council on the reduction of the use of certain hazardous substances in electrical and electronic equipment, January 2003

Background

The RoHS directive restricts the use of Lead (Pb), Cadmium (Cd), Mercury (Hg), hexavalent Chromium (CrVI), polybrominated biphenyl (PBB) compounds, and polybrominated diphenyl ether (PBDE) compounds in electrical and electronic equipment sold in the European Union.

Bronze BR1

Your Bronze BR1

The BR1 remains the ‘baby’ of the Bronze Reference Series. Improved driver and tweeter technologies help to propel the BR1 ahead of its predecessor. Overall bandwidth has been increased with usable frequency response right out to 30KHz. Improved motor system linearity has resulted in lower distortion and low frequency damping. The BR1 is now single wired, but improved terminal quality lifts the overall desirability of this entry level monitor.

Because the BR1 offers huge performance from a small speaker, it lends itself to a wide range of positioning options. The BR1 will perform equally well no matter how it is positioned. The BR1 can be placed on a stand, on a book-shelf, it can even be hung on a wall using a wall bracket (not supplied). The BR1 has a ¼” UNC threaded insert in the back of the cabinet to allow it to be wall mounted. Please note that when using a wall bracket we would recommend using the enclosed port bungs to eliminate ‘bass boom’ and unwanted air turbulence caused by the bracket.

Frequency Response	Sensitivity (1W@1m)	Nominal Impedance (Ohms)	Power Handling RMS (W)	Recommended Amplifier Power Output.
55Hz – 30KHz	88dB	6	70	15 - 70W

Drive Unit Complement	Cabinet Design	Product External Dimensions cm (inch)	Weight (packed) Kg (lb)	Finishes
1 x 5.5" MMP® Mk2 Bass mid-range. 1 x 25mm Gold Dome C-CAM® tweeter.	Rear ported, bass reflex	26H x 16.5W x 18D (10 ¼ x 6 ½ x 7 $^{1}/_{16}$)	8.7 (19.1)	Black Oak, Walnut, Cherry.

Your Bronze BR2

Our engineers have been careful not to spoil the talented, multi award winning B2. Conservative tweaks and general improvements to the crossover components and drivers have lifted the performance a stage further promising improved clarity and reduced overall distortion. Overall bandwidth has been increased with usable frequency response right out to 30KHz. Improved motor system linearity has resulted in lower distortion and low frequency damping.

The new BR2 still incorporates the special figure eight internal bracing which gives a very rigid construction, helping the BR2 to achieve a clean, un-boxy sound reminiscent of high-end speakers using very, heavy and high-tech construction techniques.

Frequency Response	Sensitivity (1W@1m)	Nominal Impedance (Ohms)	Power Handling RMS (W)	Recommended Amplifier Power Output.
42Hz - 30KHz	90dB	6	100	30 - 100W

Drive Unit Complement	Cabinet Design	Product External Dimensions cm (inch)	Weight (packed) Kg (lb)	Finishes
1 x 6.5" MMP® Mk2 Bass mid-range. 1 x 25mm Gold Dome C-CAM® tweeter.	Front ported, bass reflex	35H x 18.5W x 25D (13 ¾ x 7 $^{5}/_{16}$ x 9 $^{13}/_{16}$)	13.3 (29.3)	Black Oak, Walnut, Cherry.

Your Bronze BR5

BR5 is new to the Bronze Reference Series. The cabinet profile is now slimmer than its predecessor to offer a more desirable foot print for a typical life-style setting. The new 5.5” bass drivers replace the 6.5” bass drivers of the B4. However, bass extension and punch have been maintained and even improved in terms of overall control. The 2 ½ way design is now optimised with the bass and bass/ mid-range drivers working in dual chambers, similar to the more advanced MA designs. Cabinet bracing has been up rated and results in very rigid construction producing a clean, ‘un boxy’ character. The floor-level mounted terminal panel now allows easy access without un-necessary trailing cables.

Unlike the BR2, the BR5 has a reflex port at the rear as well as the front. This is to provide maximum airflow at low frequencies and reduces air pressure that can lead to bass compression effects.

Frequency Response	Sensitivity (1W@1m)	Nominal Impedance (Ohms)	Power Handling RMS (W)	Recommended Amplifier Power Output.
36Hz-30KHz	90dB	6	120	30 - 120W

Drive Unit Complement	Cabinet Design	Product External Dimensions cm (inch)	Weight (packed) Kg (lb)	Finishes
1 x 5.5" MMP® Mk2 Bass, 1 x 5.5" MMP® Mk2 Bass mid-range. 1 x 25mm Gold Dome C-CAM® tweeter.	Dual Chamber Bass Reflex. Ported Front and Rear.	85H x 16.5W x 24.7D (33 7/16 x 6 ½ x 9 ¼)	14 (30.8) (Packed Individually)	Black Oak, Walnut, Cherry.

Bronze BR6

Your Bronze BR6

Bronze BR6 is the new 2 ½ way floor-standing flagship of the six-model range and builds on the considerable musical strengths of the smaller Bronze BR5 by providing a still wider bandwidth, higher power handling and more effortlessly realised dynamics.

The Bronze BR6 employs multiple bracing positioned at critical resonance nodes. Its slim proportions and smoothly profiled front positively contribute to sound quality by reducing diffraction effects.

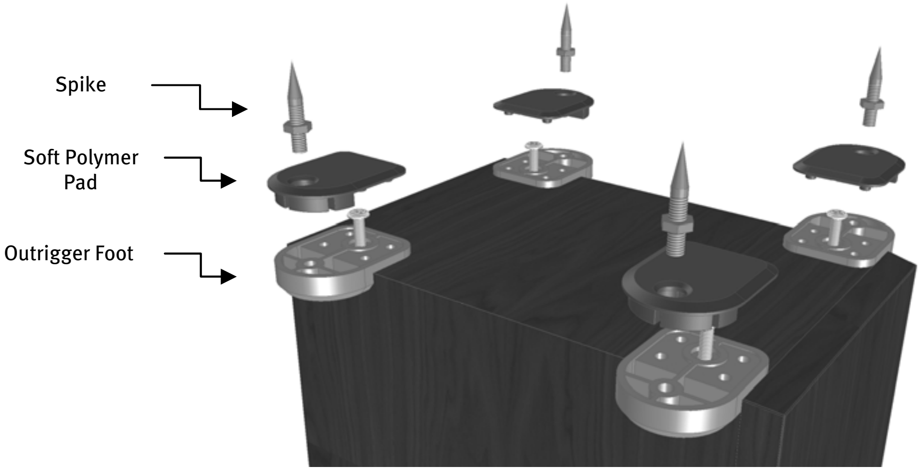
The Bronze BR6 utilises three 6.5-inch MMP® Mk2 drivers. The lower two units handle bass only, the upper unit provides punchy upper bass and a clear, natural mid-band right up to the crossover point with the tweeter at 2.6 kHz.

Frequency Response	Sensitivity (1W@1m)	Nominal Impedance (Ohms)	Power Handling RMS (W)	Recommended Amplifier Power Output.
33Hz – 30 KHz	90dB	6	150	40 - 150

Drive Unit Complement	Cabinet Design	Product External Dimensions cm (inch)	Weight (packed) Kg (lb)	Finishes
2 x 6.5” MMP® Mk2 Bass Drivers, 1x 6.5” MMP® Mk2 Mid-range Driver. 1 x 25mm C-CAM® Gold Dome tweeter.	Dual Chamber Bass Reflex. Ported Front and Rear.	97H x 20W x 30D (38 $^{3}/_{16}$ x 7 $^{7}/_{8}$ x 11 $^{13}/_{16}$)	20.4 (44.9) (Packed Individually)	Black Oak, Walnut, Cherry.

Outrigger Foot Fixing (BR5 and BR6 Only)

The Bronze Reference Series outrigger foot incorporates a spike for use on carpeted floors and also, a soft polymer pad (for use on wooden or tiled floors).



BEWARE. The spikes are very sharp, and could cause injury if care is not taken when handling them.

Please ensure there are no hidden wires under the carpet, or trailing mains leads that could be damaged by the spikes.

1. You can carefully place the cabinet on it's top or back to fit the outriggers. Locate the outrigger foot over the threaded inserts in the cabinet.
2. Screw these in place using the supplied screws.
3. Place the soft polymer pad into it's locating positions. These pads are for use on hard floors. If you have hard floors, you can now enjoy your speakers. If you have carpet please continue to follow these instructions.
4. Fit the spikes into the inserts on the outrigger feet. If you have a very thick pile carpet, you may need to remove the soft polymer pad to ensure the spikes fully penetrate the carpet.
5. Carefully turn your speaker back over and check that it is evenly balanced. If uneven, you can adjust the height in the appropriate corner by unscrewing the spike slightly. This operation may need to be repeated a several times to ensure your cabinet is completely level. When you are happy with the balance of the cabinet, tighten the locking nut on each spike. The soft polymer pad may need to be removed to do this.

Bronze BR-LCR

Your Bronze BR-LCR

The new Bronze BR-LCR is the vital aesthetic and sonic link in any Bronze Reference-based home cinema or multi-channel music system, bringing extra solidity, depth and realism to the front soundstage, especially with dialogue. Recognising that the centre is often the hardest working speaker in an A/V system, the new Bronze BR-LCR has been designed with two 5.5-inch MMP® Mk2 bass-mid drivers that hand over to the C-CAM® tweeter at 2.6KHz. A special crossover network ensures the Bronze Centre has excellent vertical and horizontal off axis frequency response, eliminating the need for a 'hot seat' listening position and integrating smoothly with the Bronze BR1, BR2, BR5, BR6 or BR-FX in a home theatre set-up. With easy amplifier loading, the new Bronze Centre will get the best from even lower powered A/V amplifiers (receivers).

Frequency Response	Sensitivity (1W@1m)	Nominal Impedance (Ohms)	Power Handling RMS (W)	Recommended Amplifier Power Output.
60Hz-30KHz	90dB	6	120	20-120W

Drive Unit Complement	Cabinet Design	Product External Dimensions cm (inch)	Weight (packed) Kg (lb)	Finishes
2 x 5.5" MMP® Mk2 Bass mid-range, 1 x 25mm Gold Dome C-CAM® tweeter.	Sealed Cabinet	16.5H x 46W x 16.5D (6 ½ x 18 $^1/_8$ x 6 ½)	6.8 (15)	Black Oak, Walnut, Cherry.

Bronze BR-FX

Your Bronze BR-FX

The BR-FX surround speaker combines amazing performance with modern, discreet design that can be flush mounted on a wall using the enclosed wall brackets. The attractive curved grille and end caps conceal a rigid angular cabinet construction and Monitor Audio's renowned and highly acclaimed MMP® Mk2 driver technology and C-CAM® tweeters.

By using low slope linear phase crossover design, Monitor Audio has engineered the Bronze BR-FX to have seamless integration and almost perfect 180-degree dispersion characteristics. Whilst the bass driver always operates in phase, the tweeter section can be configured to operate as a bi-pole or di-pole. This is adjusted by way of a toggle switch (see page 11). To enable the correct function of these speakers, they are left and right handed specific.

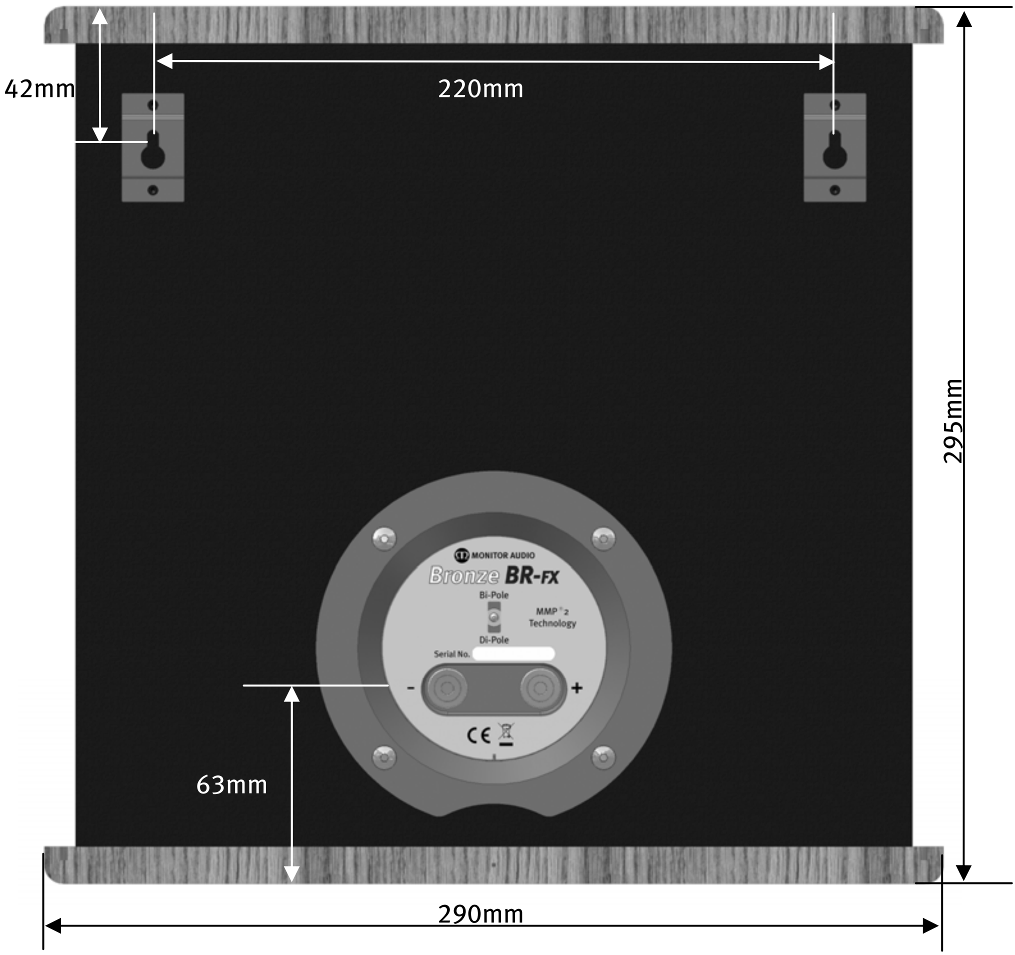
Frequency Response	Sensitivity (1W@1m)	Nominal Impedance (Ohms)	Power Handling RMS (W)	Recommended Amplifier Power Output.
65 Hz - 30 KHz	88 dB	6	80	25-80W

Drive Unit Complement	Cabinet Design	Product External Dimensions cm (inch)	Weight (packed) Kg (lb)	Finishes
1 x 5.5" MMP® Mk2 bass/midrange driver, 2 x 25mm Gold dome C-CAM® tweeters.	Sealed Cabinet	29.5H x 29W x 13D ($11^5/_8$ x $11\ ^7/_{16}$ x $5\ ^1/_8$)	8 (17.6)	Black Oak, Walnut, Cherry,

Fixing Your Bronze BR-FX to a Wall

WARNING: For safety reasons do not attempt to fix these speakers to your wall if you are unsure of your ability to provide a secure and safe fixing. You will need to determine where the BR-FX will be fixed and the structure of the wall. If unsure, please obtain the services of a competent qualified tradesperson.

Ensure that there are no water pipes, or electricity cables running behind where the wall bracket is going to be secured. Work from secure steps and avoid trailing wires. For recommendations on where to fix your BR-FX please refer to the FAQ's on our web site: www.monitoraudio.co.uk

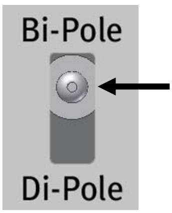


Connecting your Bronze BR-FX

The Bronze BR-FX's are supplied as right hand and left hand units and both can be configured to either bi-pole or di-pole. The factory setting is bi-pole as illustrated in fig. 1 below.

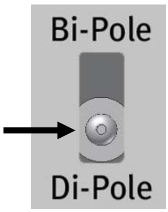
In bi-pole mode, all speaker units (mid/bass unit and tweeters) are in phase. This feature is for when the BR-FX is set up as a rear/surround speaker in a typical 5.1 channel system. In di-pole mode, one of the HF units (tweeter) is out of phase with the other tweeter and mid/bass unit. It is best to implement this configuration when using the BR-FX as part of a 7.1 channel system, with the BR-FX's taking up positions on the sidewalls.

Please note that the BR-FX's are left and right handed specific. This is not an issue when used in bi-pole mode as a rear surround speaker. It is essential that they are positioned correctly if used in a 7.1 channel system.



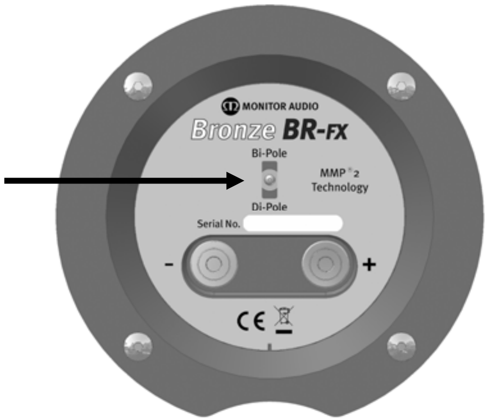
Bi-Pole Mode

Fig. 1



Di-Pole Mode

Fig. 2



Before changing your BR-FX's from bi-pole mode to di-pole mode, please ensure that the speaker wires are disconnected from your loudspeakers. This helps to protect your amplifier.

To change from bi-pole, to di-pole mode, the toggle switch on the crossover panel needs to be moved from its factory set position (fig. 1) to the di-pole position (fig. 2).

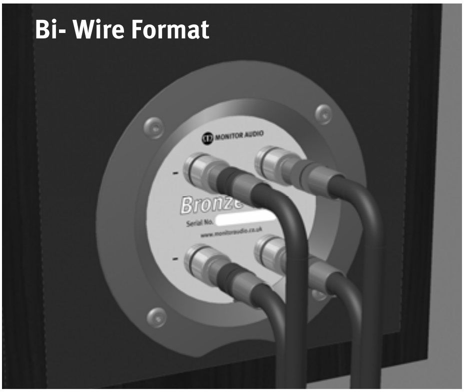
Connecting Your Bronze Reference Loudspeakers

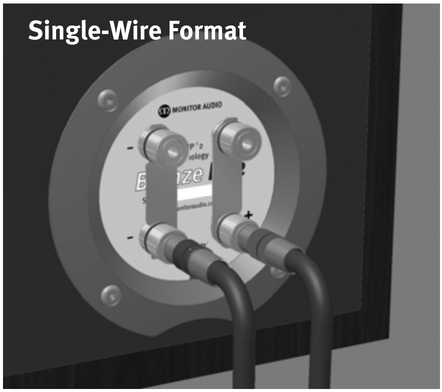
You will notice that when you unpack your loudspeaker, there are plastic terminal caps in the terminals where the speaker cable connectors should go. These can be simply removed by placing a thin, flat object underneath them and carefully levering them free.

The BR2, BR5 & BR6 can be either single or bi-wired. At Monitor Audio, we would always recommend bi-wiring your loudspeakers for improved sound quality. If you are going to be connecting your speakers in a bi-wire format, please remove the terminal links. This is done by unscrewing the red and black terminals slightly and removing the link. Connect them as in the below, left. You can also bi-amp your loudspeakers. The top terminals are for the HF, and the bottom terminals are for the LF. In the cases where there is a mid bass unit (BR5 and BR6), this is connected to the top terminals

The BR1, BR-LCR & BR-FX are single wire only. This can be seen in the illustration below, centre.

However if neither of these options are open to you, please connect your loudspeakers as in the illustration below, right. Please remember to **leave the terminal links in.**


Bi- Wire Format


Single-Wire Format



BR1, LCR Wiring

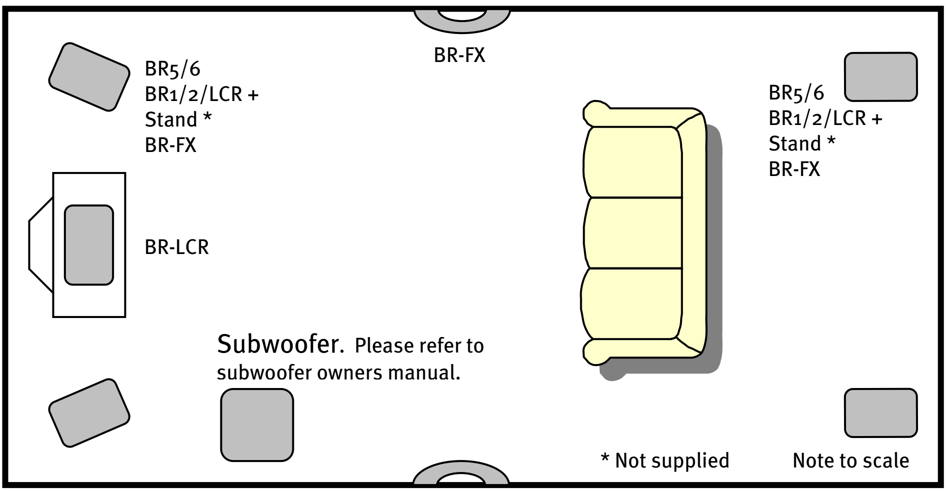
Positioning

The positioning of your loudspeakers for a two channel, stereo system very much depends on your listening environment. Ideally you would place your speakers 2 – 3m (6 – 10 ft) apart in the middle of your wall and you would sit approximately 2m away. However, the ideal listening position is not always possible. Therefore, we would recommend that you try and position them as close as possible to the ideal.

Start by playing some different pieces of music that are familiar to you. If you have a rear ported speaker (BR1, BR5, BR6) try not to place them too close to the wall. If they are too close you will find that the bass is very prominent. Start by placing them approximately 20cm (8”) from the wall. If you find there is too much bass place them further away from the wall. If, on the other hand, you find there isn’t enough bass for your liking, place them slightly closer to the wall. The same applies with placing you loudspeakers next to a side-wall. If possible do not place your loudspeakers any closer than 50cm (20”) to your side-wall.

Try varying the distance your loudspeakers are apart from each other. If they are too close together, this may result in poor stereo imaging. This is when sound moves from left to right or right to left, for example a car in a movie sound track. But if you place them too far apart, there will be a big gap in the imaging. When listening to music through your speakers, if you have them set up correctly, you shouldn’t notice that the speakers are even there, the music should sound as if it is coming from the centre of the two speakers.

For the positioning of a multi channel home cinema system, please refer to the illustration below or your AV amplifier/receiver manual.



Running-In

As with all speakers, the Bronze Reference requires a certain amount of running-in time before the best is achieved from your loudspeakers. A running-in period of approximately 50 hours should be enough for the Bronze Reference Series.

Running-in loudspeakers is similar to running-in a car engine. Play them at approximately half of your normal listening level to run them in so that permanent damage is not caused.

If you wish to speed up the running-in process, this can be done by placing them face to face (almost touching) and connecting one of the pair out of phase (black to red and red to black). This way the sound waves cancel each other out and very little sound level is actually heard. This is a convenient solution, as they can be left to run-in while you are away from home.

Port Bungs

Bookshelf Loudspeakers

The BR1 is a rear ported cabinet design. Because of this design, we recommend that when fixing the loudspeakers to a wall that the port bungs are used. This may also apply when they are positioned very close to a rear/side wall. The BR2's, by contrast, are front ported in design. This means that they can be positioned more or less anywhere and it won't affect the sound greatly. The only time that the port bungs may be needed is if the loudspeakers are close to a side-wall. The bass may seem to 'boom' off of the surrounding walls in the listening room and seem over-powering.

Floor-Standing Loudspeakers

The BR5 and BR6 are both designed using two ATR port tubes. One is located on the front of the cabinet, the other on the rear. These ports should not need to be blocked if you are using your loudspeaker in a room greater than approximately $9m^2$. However, if you cannot implement the ideal speaker positioning, then experiment using the port bungs. Firstly start by fitting them in the rear port, then the front, and then both to see which configuration is best suited to your personal tastes and room constraints.
Foam port bungs are supplied for all speakers with and ATR port tube. The port bungs are another way of fine-tuning the loudspeaker to fit in sonically in your home environment.

WARNING: Care must be taken not to insert the port bungs too far into the port as this may result in the foam bung being lost inside the cabinet.

Guarantee and Service

Valid upon completion of the guarantee card and its return within 30 days of purchase.

This equipment has been fully tested prior to dispatch from the factory. Both the craftsmanship and the performance of this product is guaranteed against manufacturing defects for the period of three years from the date of purchase (see conditions below), provided that the product was supplied by an authorised Monitor Audio retailer under the consumer sale agreement. (The words 'consumer sale' shall be construed in accordance with section 15 of the supply of goods act 1973). Monitor Audio accepts no responsibility for defects arising from accident, misuse, abuse, wear and tear, modification or operation outside of that specified within this instruction manual. Neither will responsibility be accepted for damage or loss occurring during transit to or from the parties claiming under this guarantee.

This guarantee covers both labour and parts. The liability of Monitor Audio is limited to the cost of repair or replacement of the defective parts (at the discretion of Monitor Audio) and under no circumstances extends to consequential losses or damage.

Claims under this Guarantee

The equipment should be returned in its packaging to the original supplier where possible, or to any other authorised Monitor Audio dealer. If it is not possible to return the equipment by hand, then it should be sent carriage prepaid via a reputable carrier. If the original packing is not available replacement packaging can be purchased from Monitor Audio. If you have any difficulties complying with these requirements please contact us at the following address:

Monitor Audio Ltd.
Unit 2, 24 Brook Road
Rayleigh
Essex
SS6 7XL
England

Tel: 44 (0) 1268 740580
Fax: 44 (0) 1268 740589
Internet: www.monitoraudio.co.uk
Email: info@monitoraudio.co.uk

This guarantee does not affect the statutory rights of the consumer under UK law.

Monitor Audio reserve the right to alter specifications without notice if it is considered that an improvement can be made to the product.

Data Protection

We at Monitor Audio are committed to respecting the wishes and privacy of our customers. Any information you provide will be held in the strictest confidence and only used within the Monitor Audio organisation for the provision of services such as warranty claims or spare parts.

We may wish to contact you in the future to ensure you are happy with the products and standards of service we provide and to keep you up-to-date with the latest products and promotions we have to offer.

Should you wish not to be contacted by us either by post, e-mail or phone, please tick the box on the warranty card. Alternatively you can request not to be contacted in future by writing to Customer Service, at the address on the previous page.

Owner Information

Product Details

Model (s) ……………………………………………………………………………………………

Product Serial No (s) ……………………………………………………………………………….

Date of Purchase …………………………………

Dealer Details

Dealer Name ……………………………………………………………………………………….

Address ……………………………………………………………………………………………

Town, Post code, Country ………………………………………………………………………….

e-mail address ……………………………………………………………………………………

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